

BORDER REV. DATE: June 11, 2004

DRILL HOLES

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PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing mast arm Traffic Control Signal with interconnect at the intersection of MD 198 (Ft Meade Rd) and Laurel Plaza / Dutch Market in Prince George's County. Pedestrian crossings shall be added across the north and south legs of this intersection. Additionally, street lighting shall also be installed at this intersection. The addition of street lighting requires the removal of the existing overhead service and the installation of metered pedestal service. MD 198 (Ft Meade Rd) is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA six-phase, fully-actuated mode, with the MD 198 (Ft Meade Rd) approaches continuing to run concurrently. The Exclusive/Permissive left turn phases on MD 198 (Ft Meade Rd) shall remain in operation. The existing Countdown pedestrian phase with audible pushbutton actuation shall remain in operation across the east leg MD 198 (Ft Meade Rd). New Countdown pedestrian phases with audible pushbuttons on recall shall be installed across both the Laurel Plaza and Dutch Market entrances. The Laurel Plaza / Dutch Market drive approaches shall continue to run concurrently.
- The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.
- The Contractor shall deliver the audible pushbuttons to the SHA Signal Shop for testing and programming.

III. SPECIAL NOTES

- All controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7652 seventy-two hours in advance of intended work.
- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- APS will function as follows:
TO CROSS FT MEADE ROAD (Existing Pedestrian Crossing)
 - When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message "Wait to cross Fort Meade at Laurel Plaza and Dutch Market; Wait."
 - When the WALK phase begins, the pushbutton unit will provide a rapid tick which will last for the duration of the WALK phase.TO CROSS FT MEADE ROAD (Proposed pushbuttons in median)
 - When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message "Wait to cross Fort Meade at Laurel Plaza and Dutch Market; Wait."
 - When the WALK phase begins, the pushbutton unit will provide a rapid tick which will last for the duration of the WALK phase.TO CROSS LAUREL PLAZA (Proposed Pedestrian Crossing)
 - When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message "Wait to cross Laurel Plaza at Fort Meade; Wait."
 - When the WALK phase begins, the pushbutton unit will provide a rapid tick which will last for the duration of the WALK phase.TO CROSS DUTCH MARKET (Proposed Pedestrian Crossing)
 - When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message "Wait to cross Dutch Market at Fort Meade; Wait."
 - When the WALK phase begins, the pushbutton unit will provide a rapid tick which will last for the duration of the WALK phase.

The contact persons for District #3 (Prince George's County) and SHA are as follows:

Mr. Venu G. Nemani, P.E.
Assistant District Engineer - Traffic
Phone: (301) 513-7404

Mr. Tom Fountain
District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Victor Grafton
Assistant District Engineer - Utility
Phone: (301) 513-7350

Ms. Corren Johnson
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Manager, Signal Operations Section
410-787-7652

Mr. Sonny Bailey
Manager, Sign Shop Operations
410-787-7676

The power company representative is:

Baltimore Gas and Electric
1068 N. Front Street
Room 501
P.O. Box 1475
Baltimore, MD 21303-1475
410-850-4620

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	DESCRIPTION	QUANTITY
9571	Sheet aluminum signs to consist of: (pole mount) Pedestrian education R10-3(1) sign (9"x15"). (Note: Sign to read "PUSHBUTTON TO CROSS LAUREL PLAZA DRWY".) Pedestrian education R10-3(1) sign (9"x15"). (Note: Sign to read "PUSHBUTTON TO CROSS DUTCH MARKET DRWY".)	4 SF 2 EA 2 EA

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2001	Class 2 Excavation.	1 C.Y.
2002	Test Pit Excavation	4 C.Y.
5004	12" white preformed thermoplastic pavement marking lines.	170 L.F.
6002	5" concrete sidewalk.	168 S.F.
6003	Detectable warning surface for curb ramps	8 S.F.
8008	Audible/tactile pedestrian pushbutton station & signs.	8 EA
8009	Breakaway Pedestal pole (5')	2 EA
8009	Breakaway Pedestal pole (10')	4 EA
8012	Embedded Metered service pedestal.	1 EA
8016	LED 16" countdown pedestrian signal head.	4 EA
8024	Remove and dispose of equipment per assignment.	1 EA
8035	Electrical cable - 2 conductor (No. 12 AWG) Type TC.	430 L.F.
8040	Schedule 80 rigid PVC conduit up to 4" - trench.	105 L.F.
8042	Install overhead or ground mounted sign (including all hardware).	4 S.F.
8044	No. 6 AWG stranded bare copper ground wire.	130 L.F.
8047	1 conductor electrical cable, No. 8 AWG THHN/THWN	65 L.F.
8055	Electrical cable - 2 conductor (No. 14 AWG).	1200 L.F.
8057	Electrical cable - 5 conductor (No. 14 AWG).	705 L.F.
8071	Furnish and install any size lighting arm with LED Cobra head.	2 EA
8073-A	Furnish and install 6' Pole Extension on Existing Signal Pole.	2 EA

C. EQUIPMENT TO BE REMOVED

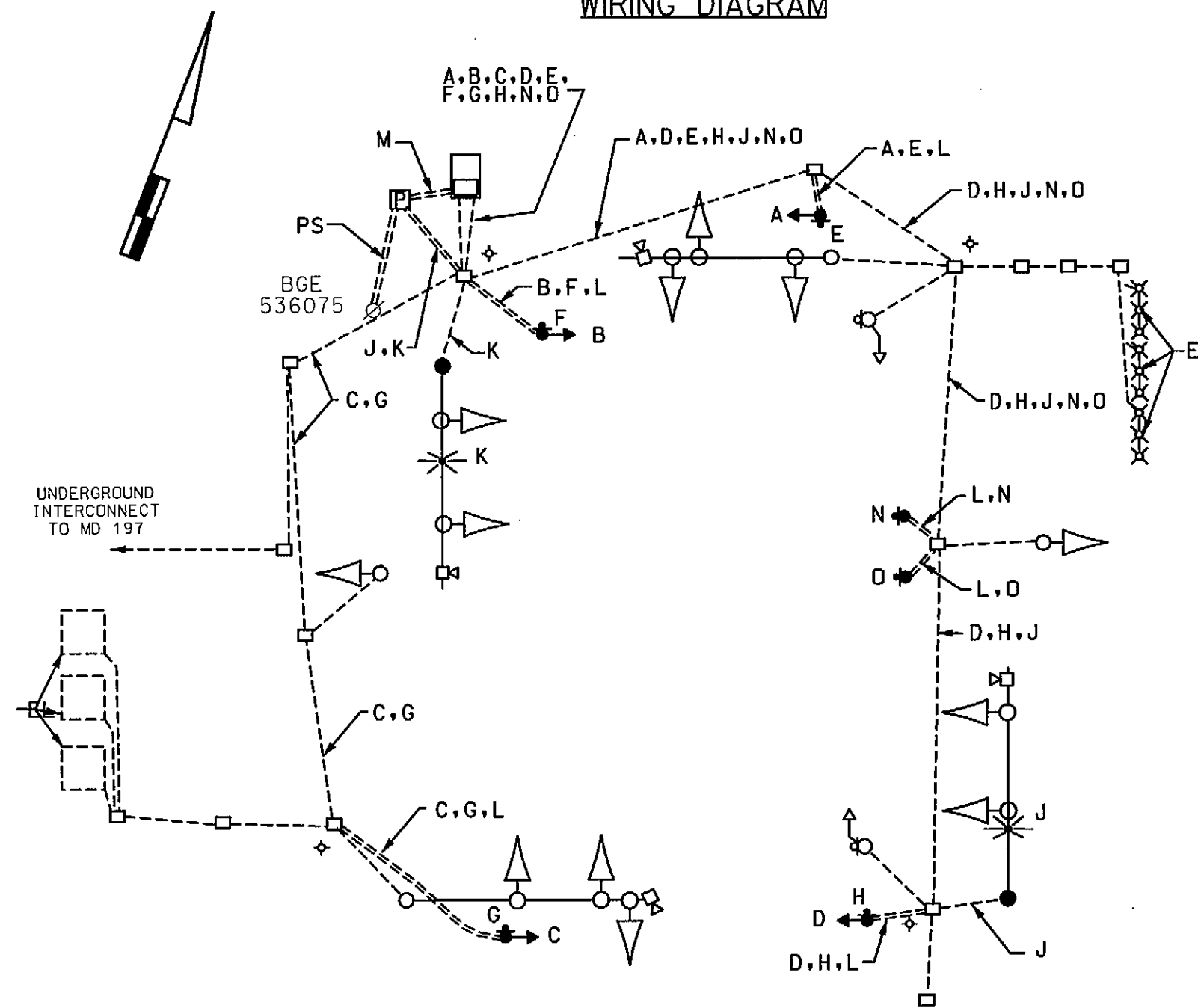
All removed signal materials are to become property of the contractor.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 & 5	←G-/R	←G-/R	R	←G-/R	←G-/R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6																		
PHASE 1 & 6	←G-/G	←G-/G	G	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
1 & 6 CHANGE	←Y-/G	←Y-/G	G	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
PHASE 2 & 5	R	R	R	←G-/G	←G-/G	G	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW
2 & 5 CHANGE	R	R	R	←Y-/G	←Y-/G	G	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEAR COUNTDOWN	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 & 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	WALK	WALK
PED CLEAR / COUNTDOWN	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW
4 & 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

TOD NO: XX439-29
SHA NO: PG995B5E
MD 198 @ Laurel Plaza Drive

WIRING DIAGRAM



WIRING KEY	
A	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C	2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)
D	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
E	(3) 1-CONDUCTOR ELECTRICAL CABLE (NO. 8 A.W.G.) THHN/THWN
F	LOOP WIRE (NO. 14 A.W.G.) EXISTING
G	EXISTING MICRO PROBE SET
H	PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY BGE
I	EXISTING GROUND ROD
J	GROUND ROD

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
**MD 198 (FT MEADE RD)
AND LAUREL PLAZA
LAUREL, MARYLAND**

GENERAL INFORMATION SHEET

SCALE	NONE	DATE	3/4/13	CONTRACT NO.	XX4395185
DESIGNED BY	R.R.Z	COUNTY	PRINCE GEORGE'S		
DRAWN BY	R.C.	LOGMILE	16019804.12		
CHECKED BY		TMS NO.	L125		
F.A.P. NO.		TOD NO.			
TS NO.	2192D	DRAWING NO.	2 OF 2	SHEET NO.	OF



6057G1.DGN
PLOTTER: #DATETIME#
FILE: #FILE#

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